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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-08-04** **Date: 10-04-17**

Customer : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Address : Project Division, Yelahanka Zone, BBMP, Bangalore.

Project Name : Providing open gym in Parks of Yelahanka 3rd Phase, Ward No.04.

Agency : Technical Manager(West), KRIDL, Bangalore.

Customer's Reference : EE(Project)/Ynk Zone/WO/41/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-04-17

Sample ID No : 2017-04-08-04/01

Customer ID : Platform Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 10/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Platform Concrete	M20	03/04/2017	10/04/2017	150.22 X 151.09 X 150.22	22697	8.179	433.5	19.1	18.6
2	Platform Concrete	M20	03/04/2017	10/04/2017	151.46 X 150.76 X 150.54	22834	8.106	408.7	17.9	
3	Platform Concrete	M20	03/04/2017	10/04/2017	151.97 X 150.42 X 150.00	22859	8.115	427.5	18.7	

Note:
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Prepared by
Harsitha

FOR CIVIL Pro.

CIVIL PRO Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-03-01-04** **Date: 29-03-2017**
Customer	:	Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.
Address	:	Project Division, Yelahanka Zone, BBMP, Bangalore.
Project Name	:	Providing open gym in Parks of Yelahanka 3rd Phase, Ward No.04.
Agency		Technical Manager (West), KRIDL, Bangalore.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/41/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-03-17
Sample ID No	:	2017-03-01-04/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	01-03-2017 to 29-03-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.54	–
2	Finess by Air permeablity method (m2/kg, Min)	278.6	225m^2/kg, Min
3	Density (gm/cc)	3.19	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	195 minutes	Not less than 30 minutes

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-03-01-04** **Date: 29-03-2017**

Sample ID No : **2017-03-01-04/01**

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2.0mm	Not more than 10 mm
8	Compressive Strength		
	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

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Prepared by
Harshitha

FOR CIVIL Pro.
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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CEMENT CONCRETE FLOORING TILES

Lab ID : **CP-2017-04-05-02** **Date: 10-04-17**
Customer : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.
Address : Project Division, Yelahanka Zone, BBMP, Bangalore.
Project Name : Providing open gym in Parks of Yelahanka 3rd Phase, Ward No.04.
Agency : Technical Manager (West), KRIDL, Bangalore.
Customer Reference : EE(Project)/Ynk Zone/WO/41/2016-17
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 05-04-17
Sample ID No : 2017-04-05-02/01
Sample Type : Pre-Polished Designer Cement Concrete Tiles
Reference to BIS codes : IS 1237:2012
Date of test : 05-04-17

1. Water Absorption

Sl.No.	Measured Dimension (mm)			Water Absorption	Average	Requirement as per IS:1237-2012
	L	B	T	(%)	(%)	
1	400	399	25.09	2.81	2.58	The average percentage of water absorption shall not exceed 10.
2	401	401	25.05	2.05		
3	400	401	25.11	2.11		
4	400	399	25.06	2.96		
5	399	400	25.17	3.02		
6	400	400	25.13	2.54		

2.Wet Transverse Strength

Sl.No.	Measured Dimension (mm)			Wet Transverse	Average	Requirement as per IS:1237-2012
	L	B	T	(N/mm^2)	(N/mm^2)	
1	401	401	25.02	7.81	8.1	The average wet transverse strength shall not be less than $3N/mm^2$.
2	401	401	25.04	8.18		
3	400	399	25.06	7.98		
4	399	401	25.01	8.81		
5	400	400	25.05	8.02		
6	401	399	25.03	7.54		

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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Date: 29-03-17

Lab ID	:	**CP-2017-03-21-06**
Customer	:	Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP,
Address	:	Project Division, Yelahanka Zone, BBMP, Bangalore.
Project Name	:	Providing open gym in Parks of Yelahanka 3rd Phase, Ward No.04.
Agency	:	Technical Manager (West), KRIDL, Bangalore.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/41/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-03-17
Sample ID No	:	2017-03-21-06/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Observation
Date of test	:	22-03-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	72.0	72.0	7.2	92.8	90-100	90-100	90-100	95-100
3	2.36 mm	166	238	23.8	76.2	60-95	75-100	85-100	95-100
4	1.18 mm	192	430	43	57.0	30-70	55-90	75-100	90-100
5	600 micron	204	634	63.4	36.6	15-34	35-59	60-79	80-100
6	300 micron	149	783	78.3	21.7	5-20	8-30	12-40	15-50
7	150 micron	146	929	92.9	7.1	0-10	0-10	0-10	0-15
8	Pan	71	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-03-21-06** **Date: 29-03-17**

Sample ID No : 2017-03-21-06/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970 (RA2016)
1	Water Absorption(%)	1.92	_
2	Specific Gravity	2.59	_
3	Material finer than 75 micron(%)	8.5	Not more than 15 percent

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-21-06**	**Date: 29-03-2017**
Customer	:	Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.	
Address	:	Project Division, Yelahanka Zone, BBMP, Bangalore.	
Project Name	:	Providing open gym in Parks of Yelahanka 3rd Phase, Ward No.04.	
Agency	:	Technical Manager (West), KRIDL, Bangalore.	
Customer Reference	:	EE(Project)/Ynk Zone/WO/41/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	21-03-17	
Sample ID No	:	2017-03-21-06/02(a)	
Sample Type/ Size	:	20mm down size coarse aggregate	
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation	
Date of test	:	22-03-17	

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken: **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	40 mm	0	0	0	100	100
2	20 mm	188	188	3.76	96.2	95-100
3	10 mm	2541	2729	54.58	45.4	25-55
4	4.75 mm	2105	4834	96.68	3.3	0-5
5	Pan	166	5000	100	0.0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-21-06** **Date: 29-03-2017**

Sample ID No : 2017-03-21-06/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	**10.1**	_
2	Elongation Index(%)	**12.8**	_
3	Specific Gravity	**2.64**	_
4	Bulk Density(Loose) (Kg/l)	**1.51**	_
5	Bulk Density(Compacted) (Kg/l)	**1.56**	_
6	Water Absorption(%)	**0.26**	_
7	Ten percent fine value(KN)	**180.0**	_
8	Aggregate crushing Value(%)	**23.7**	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements
9	Aggregate Impact Value(%)	**20.6**	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-21-06** **Date: 29-03-2017**
Customer	:	Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.
Address	:	Project Division, Yelahanka Zone, BBMP, Bangalore.
Project Name	:	Providing open gym in Parks of Yelahanka 3rd Phase, Ward No.04.
Agency	:	Technical Manager (West), KRIDL, Bangalore.
Customer Reference	:	EE(Project)/Ynk Zone/WO/41/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-03-17
Sample ID No	:	2017-03-21-06/02(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	22-03-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken: **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	80 mm	0	0	0	100	100
2	40 mm	158	158	3.16	96.8	95-100
3	20 mm	2276	2434	48.68	51.3	30-70
4	10 mm	1890	4324	86.48	13.5	10-35
5	4.75 mm	532	4856	97.12	2.9	0-5
6	Pan	144	5000	100	0.0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-21-06** **Date: 29-03-2017**

Sample ID No : 2017-03-21-06/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	**13.0**	_
2	Elongation Index(%)	**10.6**	_
3	Specific Gravity	**2.56**	_
4	Bulk Density(Loose) (Kg/l)	**1.49**	_
5	Bulk Density(Compacted) (Kg/l)	**1.57**	_
6	Water Absorption(%)	**0.24**	_

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : **CP-2017-03-27-03** **Date: 31-03-17**

Customer : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Address : Project Division, Yelahanka Zone, BBMP, Bangalore.

Project Name : Providing open gym in Parks of Yelahanka 3rd Phase, Ward No.04.

Agency : Technical Manager (West), KRIDL, Bangalore.

Customer's Reference : EE(Project)/Ynk Zone/WO/41/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-03-17

Sample ID No : 2017-03-27-03/01

Sample Type /Size : CC Kerb Stone/ 450*165*400mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 27/03/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.02	165.51	2.541	7856	122.1	15.5	14.5	18.1
2	B	100.00	165.52	2.476	7853	119.5	15.2	14.2	17.7
3	C	100.03	165.51	2.465	7857	120.8	15.4	14.3	17.9

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